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FEATURES

554

[illegible]

562

[illegible]

567

[illegible]

GLADSTONE MILLS

[illegible]

570

[illegible]

572

THE [illegible]

[illegible]

574

[illegible] PART 4

[illegible]

576

[illegible] STATION AND TRAM LIGHTS

[illegible]

579

[illegible]

584

[illegible]

588

LOCO BUILDING ON THE CHEAP PART 4

[illegible]

590

PLANNING

[illegible]

593

STRUCTURE MODELLING

[illegible]

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[illegible] LATEST RELEASES
[illegible] BOOK REVIEWS
[illegible] NEWSDESK
[illegible] SOCIETIES & CLUBS

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News&Products

[illegible]

[illegible]

National Train Show report

T

[illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

John H. Armstrong
1920-2004

[illegible]

[illegible] Dash 8-40C [illegible] General Electric Dash 8-40C diesel locomotives. [illegible] Norfolk Southern, Chicago & North Western [illegible] Union Pacific, and undecorated. [illegible] Digital Command Control (DCC) decoders [illegible]

Announcing *Model Trains Step by Step*

Model Trains

[illegible]

[illegible]

[illegible]

NMRA approves new rules

M.

HO scale modern boxcars: InterMountain Railway Co. has released ready-to-run plastic models of Pullman Standard 5,277-cubic-foot boxcars with Kadee no. 58 magnetic knuckle couplers. These cars are the third in the firm's Pinnacle Series that includes models decorated for 13 railroads. Each car has etched-metal end platforms, wire grab irons, air brake piping, and uncoupling levers. The 70-ton roller-bearing trucks have RP-25 metal wheels. The boxcar models are $28.99 to $31.99 each.

New products at the National Train Show

HO scale locomotives

Electro-Motive Division GP35 diesel locomotives

General Electric Dash 8-40CW diesel locomotives

Electro-Motive Division FP7A diesel locomotives

Electro-Motive Division SD40T-2 diesel locomotives

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HO scale freight cars

PMC 4,263 cubic-foot double-door boxcars

HO scale passenger cars

Pullman-Standard 4-duplex roomette, 4 bedroom, [illegible] sleeper [illegible]

Pullman 8-section, 1 drawing room, 2-compartment heavyweight sleeper

Passenger car truck kits

HO scale structures

Wash rack

HO scale details and accessories

Shelf couplers

Upper and lower shelf couplers

Four American prototype cuts [illegible] track

N scale locomotives

United States Railroad Administration heavy [illegible]

Two-truck Shay

HO scale Union Pacific class CA-3 caboose
The Trains has released an upgraded version of its Union Pacific class CA-3 caboose. The model features a tinted roof, die-cast metal floor, wire grab irons, Kadee-compatible coupler pockets and RP-25 metal wheels. The CA-3 caboose model is priced at $40.

-Dash Railroaders-
www.dash-railroaders.com
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News & Products

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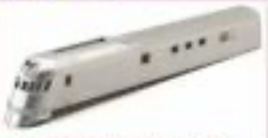
News & Products



Chicago, Burlington & Quincy 1934 Pioneer Zephyr. Con-Cor International displayed preproduction samples of its Chicago Burlington & Quincy 1934 Pioneer Zephyr. The passenger trains, which will be offered in N and HO scales, are scheduled for release between summer and winter [illegible]. The models will feature a factory-installed eight-pin Digital Command Control decoder board with [illegible], a five-pole motor with flywheel drive, and directional lighting. The passenger train models will sell for [illegible].

[illegible]

Modern boxcar

Station-section occupancy detector

[illegible]

Warehouse

[illegible]

[illegible] 800

Digital control system

[illegible] Digital Command Control (DCC) system. Works with National Model Railroad Association-compatible DC and DCC systems. [illegible]

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Prodigy Advance Digital Command Control system

Manufacturer listing

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- [illegible]

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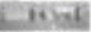

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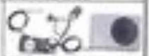

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The RoadRailer System concept is the vision of Wabash National Corporation. The Aristo-Craft RoadRailer System is made with their permission. Visit Wabash National's website (www.wabashnational.com) for a detailed explanation of how the RoadRailer System works. Additional information about the Aristo-Craft RoadRailer is available on the RoadRailer System Page of the Aristo Catalog (www.aristocraft.com). [illegible] RoadRailers!

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[illegible]

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FEATURES:

[illegible]

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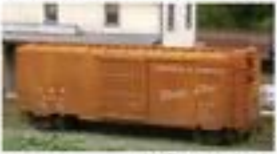
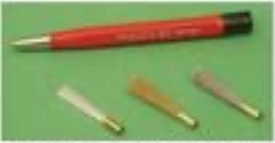


Lionel Strang says a metal scratch brush was the key to this great looking weathering job – but it took him months to work up the courage to scuff the factory finish of this finely detailed HO scale Rivarossi boxcar.

I learned about one of

My comment was



The scratch brush Lionel uses comes with fiberglass, brass, and steel tips.

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[illegible] the paint of a [illegible] boxcar.

At first glance, the result is not encouraging. But wait, there's more!

A coating of [illegible] adhesive powder completes the weathering job.

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[illegible]

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D.C. Metro sets ridership record

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Vegas monorail launches service

[illegible]

Seattle ponders new monorail

[illegible]

WMATA budget: $1.25 billion

[illegible]

Trolley service here? Thanks, but no thanks, say neighbors

SEPTA's plans for PCCs on Route 15 put on hold

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Step 2 Casting rocks

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RAILROAD PROTOTYPE MODELERS MEET: SEATTLE NMRA

By Robert Schleicher

The Railroad Prototype Modelers have a special display room at the National Model Railroad Association national conventions. There was an RPM room at the Seattle NMRA convention, but it received little publicity so the number of models exhibited was somewhat less than usual. Several folks stepped in to rescue the event at the last minute including [illegible] and some of the Free-mo module builders and [illegible] of Proto 87. There was a [illegible] the last evening which was attended by about 50 RPM folks, some having finished NMRA clinic presentations, others having completed work at some of the manufacturer's booths at the National Train Show that is also part of each NMRA National Convention.

[illegible] had a diorama in the tabletop display with the Maine Central GP38, a repainted [illegible] model.

[illegible] scratchbuilt [illegible] well cars with modified [illegible] for the containers.

[illegible]

[illegible]

[illegible]

[illegible]

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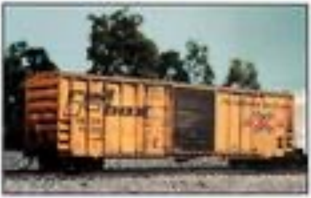
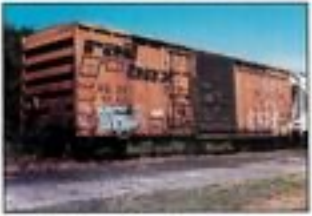
ABOX 51234 50-FOOT X-POST BOX CAR FROM MODEL DIE CASTING KIT

By W Terry [illegible]





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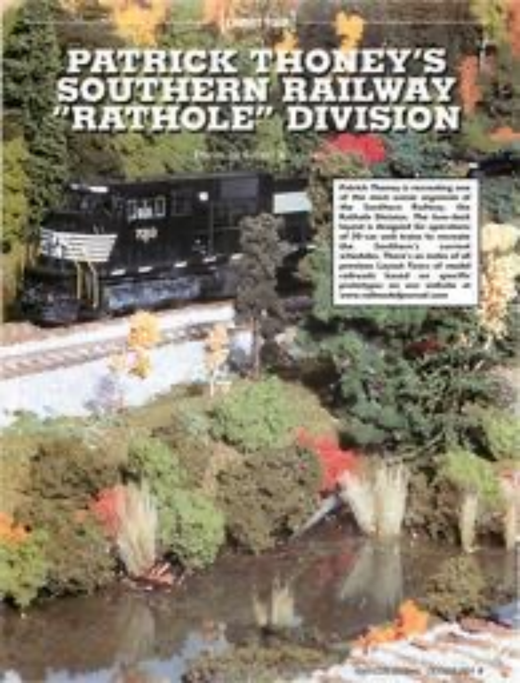
PATRICK THONEY'S SOUTHERN RAILWAY "RATHOLE" DIVISION

[illegible]



Patrick Thoney is recreating one of the most scenic segments of the Southern Railway, the Rathole Division. The two-deck layout is designed for operations of 40-car unit trains to recreate the Southern's period schedules. There's an index of all previous Layout Tours of model railroads based on specific prototypes on our website at www.railmodeljournal.com

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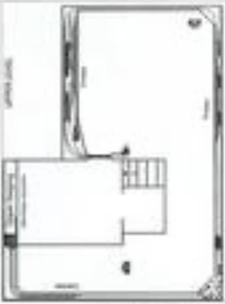

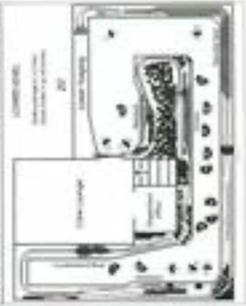

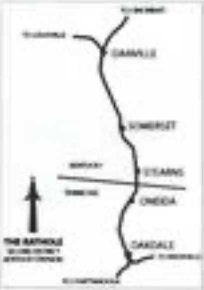
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TO CHATTANOOGA
THE RATHOLE
SECOND DISTRICT
[illegible]

Photo 10: Looking over the deck plate you can see the small mining community of [illegible] on the Kentucky and Tennessee Branch. The mainline winds along the [illegible] near [illegible].

Photo 11: Stearns has a small but solid array of industry and is [illegible]. Cars are also left in the yard from the [illegible] Branch, which is modeled as an interchange. Below you can see the 12 track staging yard which represents all points north and west of Danville.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

Construction Standards

[illegible]

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Layout Tour

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[illegible]

Operations

[illegible]

[illegible]

[illegible]

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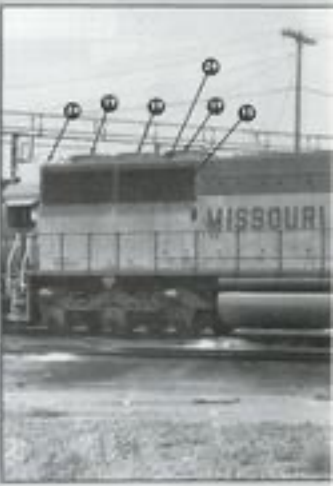
ELECTRO-MOTIVE DIVISION (EMD) SD50 AS MISSOURI PACIFIC (UP) 5000 AND 5001

by Photos from the collection
of Louis A. Marre

The parts, paints and decals you need to duplicate this full-size diesel in HO scale from Athearn and in N scale from Atlas and Con-Cor. There's an index of all previous "One-Detail-At-A-Time" articles on our website at www.railmodeljournal.com



The 5000 and 5001 [illegible] 1981. The SD50's prime mover produced 3,500 horsepower which was upgraded to 3,600 horsepower in 1984 [illegible] SD50 diesels were produced from [illegible] 1981 to May 1987 [illegible] The 3,800-horsepower SD60 [illegible] the SD50 in [illegible] 1986. [illegible] the SD50 and SD60. There's an SD50 and SD60 "Spotting Guide" in the October 2003 issue of "**The Journal**" and an article on the Union Pacific [illegible] in the December [illegible] issue.

[illegible] 5000 and 5001 [illegible] Missouri Pacific in 1984 [illegible] There's a "One-Detail-At-A-Time" [illegible] in the October [illegible] issue of "**The Journal**" and another on Missouri Pacific [illegible] in the August [illegible] issue.

Scale Model GP50:
HO Scale: [illegible]
N Scale: [illegible]

Paint

Union Pacific Armour Yellow: [illegible]

Union Pacific Harbor Mist Gray: [illegible]

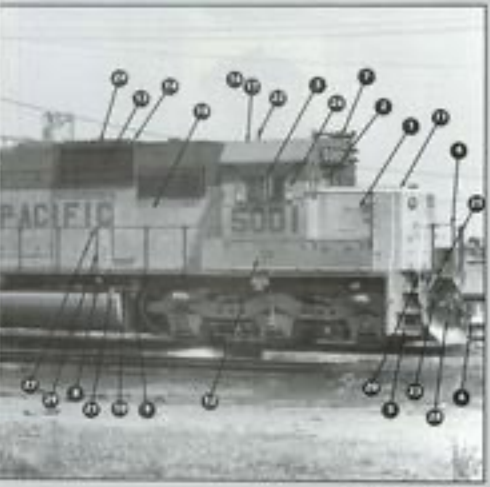
Decals
HO Scale: Microscale [illegible]
N Scale: Microscale [illegible]

One Detail At-A-Time (HO Scale)

[illegible]

A-Line, Box [illegible], Carlsbad, CA [illegible]
1 – [illegible]
2 – [illegible]
3 – [illegible]
4 – [illegible]
5 – [illegible]

Cal-Scale (division of Bowser Mfg. Co., Inc.), 21 Howard St., Montoursville, PA [illegible]
[illegible]
[illegible]



EMD SD50 AS MISSOURI PACIFIC (UP) 5000 AND 5001

[illegible]

Cannon & Company, [illegible]

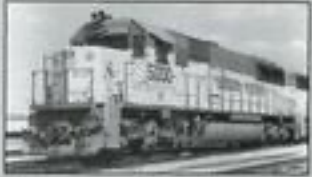
[illegible]

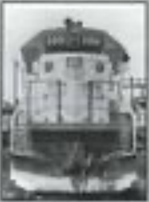
Custom Finishing, [illegible]

[illegible]

Detail Associates, [illegible]

[illegible]





Details West, [illegible]

[illegible]

Overland Models, Inc., [illegible]

[illegible]

Precision Scale, [illegible]

[illegible]

Smokey Valley Railroad Products, [illegible]

[illegible]

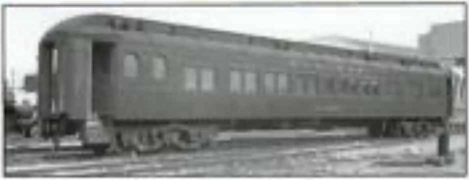
Ordering Information

[illegible]

PULLMAN STEEL SLEEPING CARS IN HO FROM BRANCHLINE'S KITS

By Tom Madden

[illegible]



[illegible]

P[illegible]

New Construction

[illegible]

[illegible]

Accommodation Evolution

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Upgrading, Rebuilding and Air Conditioning Pullman's Fleet

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

The Branchline Models

[illegible]

[illegible]

[illegible]

[illegible]

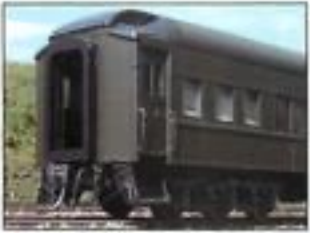
[illegible]

The Branchline kit [illegible] an imposing array of high quality [illegible] parts.

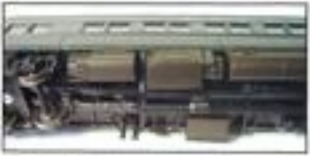
Branchline [illegible] "Rock Bay" in its pre-1931 configuration with Pullman [illegible]

Branchline [illegible] "Orange County" a Pullman Pool car with Pullman [illegible]

[illegible] Pullman [illegible] in distinctive Canadian National green and black. [illegible]

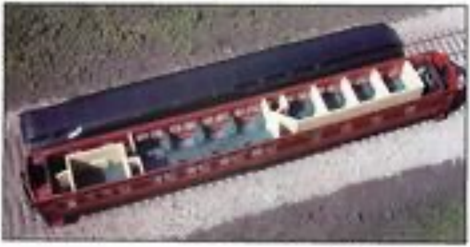


[illegible]



Pullman Mechanical [illegible]

[illegible]



CREATING STREAMBEDS & STREAMS FOR A 2 X 8-FOOT SHELF LAYOUT WITH A FUTURE

By Robert Schleicher

When the trackwork is laid, the wiring is complete and tested, and after several weeks of operating sessions, the scenery can be installed as shown in the August 2004 issue of "The Journal." Then add the rock, earth, and weed textures as shown in the September 2004 issue. The next step in the scenery-recreation process is to add "water" that looks wet enough to drink.

This 2 x 8-foot layout is made up from two 2 x 4-foot modular layout sections with interfaces at the extreme ends so the layout can be used with modular layout setups. Or the layout can be used as part of a home layout, or it can merely be operated as-is as a switching layout with out-of-sight staging tracks. You can use this open-grid style benchwork with either conventional 1/2-inch plywood and 1/2-inch Homasote track support or opt for the Dow-Corning blue extruded polystyrene track-support and scenery system.

The track plan for this layout was in the February 2004 issue of "The Journal." The steps in building the layout to the state it is shown in this issue have appeared in the April, May, June, July, and August 2004 issues. This article was first published in the September/October 1995 issue of *Model Railroading* magazine and reprinted in the book BUILDING YOUR NEXT MODEL RAILROAD in 1995 (both of these publications have been out of print for over a decade). There's an index of all previous articles on layout design on our website at www.railmodeljournal.com

Streams and other bodies of water are [illegible] the realism of your model railroad. There's [illegible]

There are three kinds of water that you [illegible] of the Mississippi River [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

CREATING STREAMBEDS & STREAMS

[illegible]

[illegible]

[illegible]

TURNOUTS

CODE 332 RAIL

the PARKER Co. [illegible]

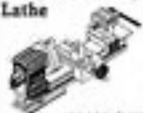
[illegible]

MODEL CITIZENS

Large scale & [illegible] figures

[illegible]

S-LM [illegible]



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[illegible] Price as shown at left. [illegible]

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[illegible]

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Price includes shipping anywhere in USA.
[illegible]
Send for FREE brochure.

[illegible]

PROXXON
TOOLS WITH CHARACTER

[illegible]

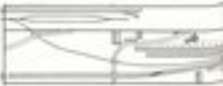
Railway of the month

Bishop Wearburn

BR North Eastern Region modelled in N

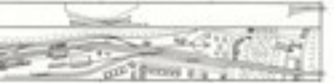
John Spencer was inspired by childhood memories.

[illegible]



[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

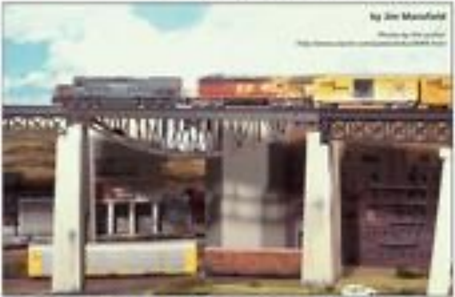
[illegible]

[illegible]

Bridging the New Heights Reached
— *and slipping something in!*

by Jim Mansfield

[illegible]



[illegible]

[illegible]

A Colorful Paint

[illegible]

[illegible]

[illegible]

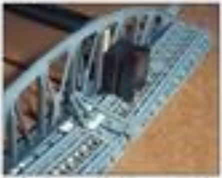
Slip Slip Slipping…

[illegible]

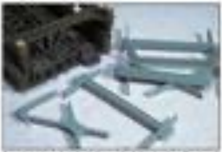
3 — Next, the straight top member of the truss was removed from the remainder of the truss. This straight portion was set aside and the remaining bits & pieces (the drop) were saved for various detail parts including the bridge shoe supports seen in Photo 7. Photos 6 & 7 also show some uses of the drop.

4 — The two bridge deck pieces in the Atlas kit were cut to fit to match a homemade paper track template representing the 27" radius curve that goes over the new curved chord deck bridge. Clearance for the large equipment used on the [illegible] layout was taken into account during the design of the deck.

5 — Once the two deck pieces were trimmed and connected together, stringers were applied to the walls in the tie pieces. These stringers were then covered with strips of masking tape while painting the bridge. Once the deck was painted and dry, the tape was removed and the wood stringers were stained.

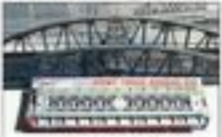


6 — Once the trusses and the deck were completed, they were connected. Here is the method used to set up the pieces during bridge assembly. As usual, my adhesive of choice (Plastruct Plastic Weld) was used. Notice that a brace for [illegible] is also in place. This item was made from the drop seen in Photo 3.

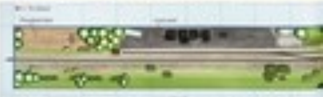


7 — Here is a detail of the end of the bridge. The small support pieces and the bridge shoe supports are constructed from the drop seen in Photo 3. The long brace was originally part of a brace assembly that connected the tops of the curved chord trusses when the kit is assembled per the Atlas kit's instructions. This "spare" part came in handy during this kitbashing project.

[illegible] ■



8 — A connecting truss brace was made from another Atlas kit piece — the deck (floor system) from an Atlas Pony Truss deck piece. All the bridges included in the lengthy [illegible] Heights-Ashbury Bridge are made from only three Atlas castings — the deck piece common to the two Atlas kits used, a pony truss from kit [illegible] and the large curved chord truss from kit [illegible].



[illegible]

Ascott-under-Wychwood

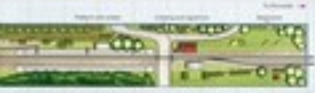
A battle to improve upon reality

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Plan of the month

Slaithwaite Mills

Designed for a small space and 4mm scale

Neil Ruddy *shows how a non-railway prototype can fire the imagination*

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Hiel-yn-Bach

00 finescale set in BR-period North Wales

The Merseyside EMGS exhibition layout is described by **Graham Forbes**

[illegible]

[illegible]

Baseboards

[illegible]

Operation

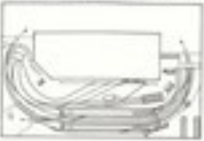
[illegible]

Track plan

[illegible]

Wiring

[illegible]



[illegible]

[illegible]

[illegible]

The waterworks siding

A new addition to the long established 16mm Compton Down Railway

[illegible] describes this latest development

[illegible]

[illegible]

[illegible]

[illegible]

St Denys

Part 2 – operation, stock and future developments

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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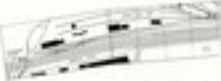

[illegible]

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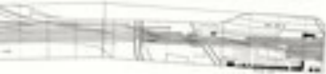
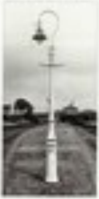


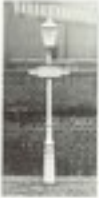
North British station and yard gas lamps

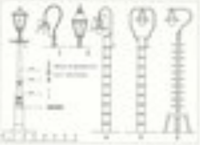
at Alloa, Clackmannanshire

R.P.A. Johnston caught a few such items before they disappeared.

[illegible]







Scale drawings

GWR Super Saloons

Luxurious prototypes for the better known centenary stock

Drawn and described by **Jonathan Joseph**

[illegible]

[illegible]

[illegible]

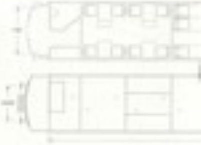
KING GEORGE

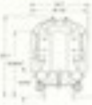
[illegible]

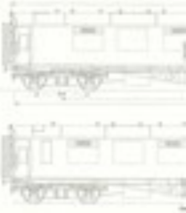
[illegible]

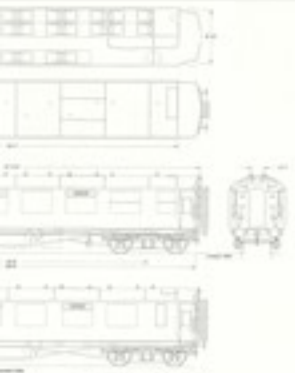
[illegible]

[illegible]









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On30....

[illegible]

banta modelworks

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[illegible]

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[illegible]

Highlands Station, Inc.

[illegible]

Kadee

Award Winning Cars

[illegible]

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Burngullow

Inspired by today's clay industry in Cornwall

[illegible] built this [illegible] long [illegible] gauge exhibition layout

[illegible]

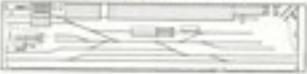
[illegible]

[illegible]

Photographs by the author.

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Loco building on the cheap – part 4

Combine components creatively to construct a Great Eastern J17

R. Chadwick continues his series about using RTR stock parts with modelling materials, and builds this unusual 0-6-0 workhorse.

[illegible]

[illegible]

[illegible]

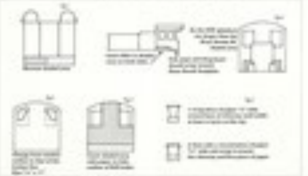
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



What sector plate?

Filbridge

An O gauge exhibition layout extended

Chelmsford & District MRC took its secretary's construction project under its wing.

[illegible]

[illegible]

[illegible]

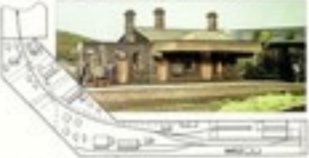
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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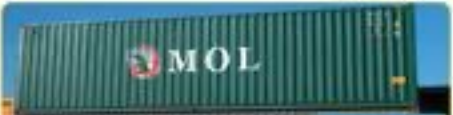
CHESAPEAKE & OHIO

T1 2-10-4

Walthers
HO Scale 40' High-Cube Container
Part 3

by David G. Casdorph

[illegible]



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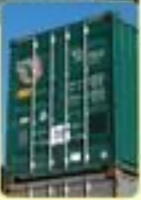

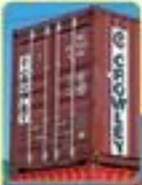

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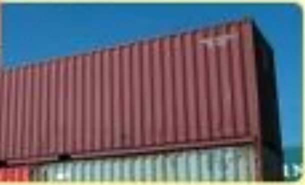
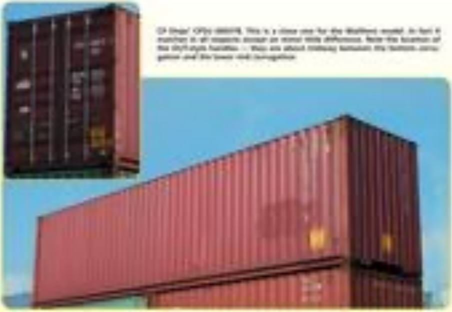


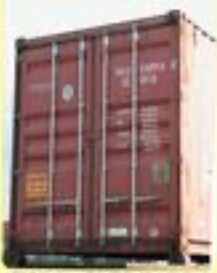
[illegible]

[illegible]

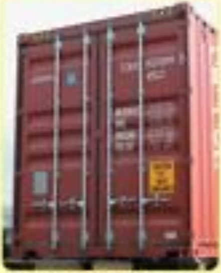
TRITON



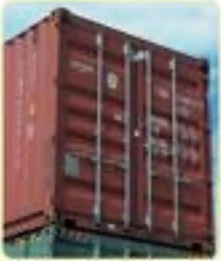
CP Ships' CPSU [illegible]. This is a close one for the Walthers model. In fact it matches in all respects except an minor little difference. Note the location of the [illegible] handles — they are about midway between the bottom corrugation and the lower mid corrugation.



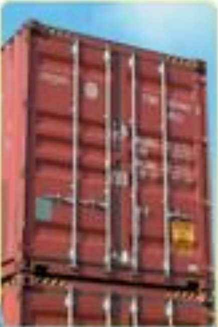
Detail on doors — TRIU [illegible]. This is the closest match for the Walthers model. Note how the handles are mounted "low." [illegible] builder.

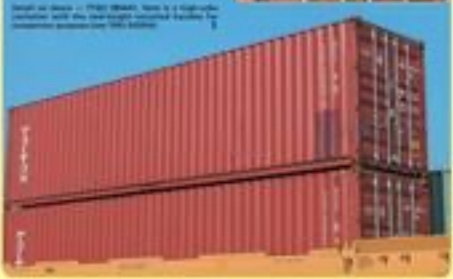


Detail on doors — TLXU [illegible]. Another match for the Walthers model with the "low" mounted handles [illegible] builder.



Detail on doors — [illegible]. This is a standard-height container (not a high cube like the Walthers model). Note the handles are mounted closer to the [illegible] corrugation.





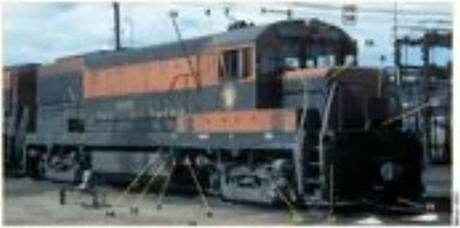
Detail on doors — [illegible]. Here is a high-cube container with the [illegible] mounted handles for comparison purposes (see [illegible]).

Great Northern (GN) GE U25B

HO Scale Model by Stewart
N Scale Model by Atlas

by Rich Pezzetello

[illegible]



The Prototype U25B [illegible]

[illegible]

[illegible]

[illegible]

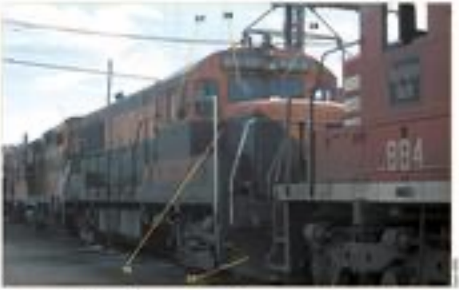
Decals

HO Scale [illegible]

N Scale [illegible]

Paints

[illegible]



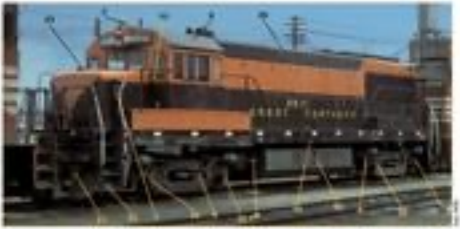
[illegible]

The Scale Model U25B. [illegible]

[illegible] For N scale, [illegible] offered a U25B [illegible]

[illegible] [illegible]

[illegible] Big Sky Blue [illegible] 2511 and 2514.



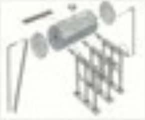
Great Northern U25B

[illegible]

Structure modelling

The first in a new occasional series

Paul A. Lunn presents advice and encouragement for newcomers to this aspect of the hobby



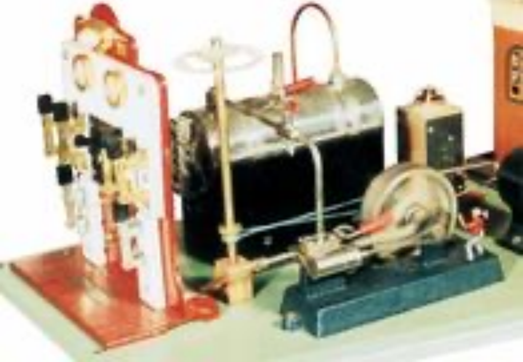
[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Make an operating power station

A stationary steam engine powered by air puts on a pleasing show

story and photos by Norm Brainard



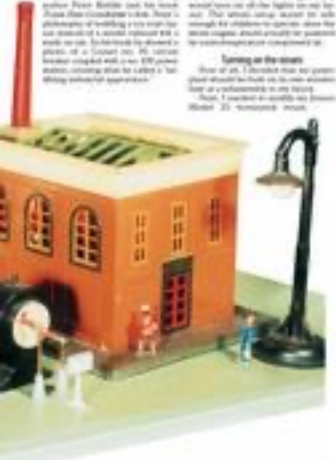
[illegible]

[illegible]

The concept

[illegible]

[illegible]



[illegible]

[illegible]

Turning on the steam

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

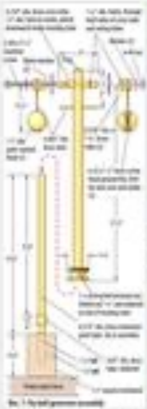
Adding fly-balls

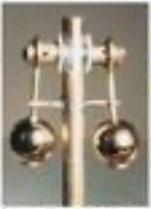
[illegible]

[illegible]

[illegible]

[illegible]





A close-up of the fly-ball governor shows the two holes drilled through the swing tubes and the cross tube. At this position, the exhaust air can easily flow up the vertical brass tube, into the cross tube, and out of those holes. The arms start to close as speed increases and the balls, their brackets soldered to the external brass tube, swing outward.

A can-type DC motor, serving as an electrical generator, is fitted into a yoke that secures the motor to the base of the power plant.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Generating electricity

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

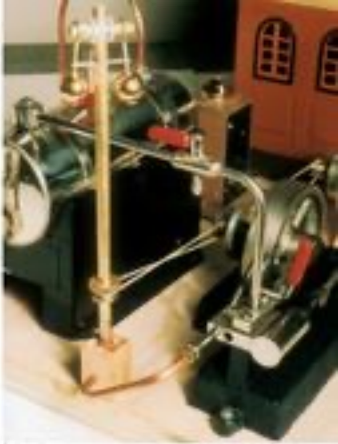
Completing the illusion

[illegible]

[illegible]

Fig. 2 [illegible]

Fig. 3 [illegible]



[illegible]

[illegible]

[illegible]

[illegible]

Turning on the lights

[illegible]

[illegible]

[illegible]

[illegible]

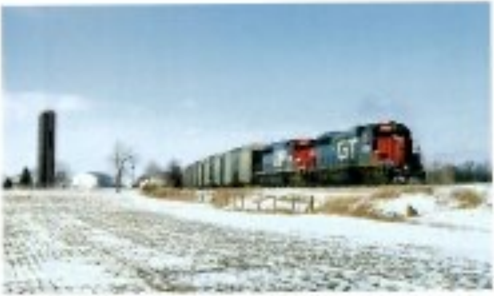
[illegible]

[illegible]

[illegible]

GOODNIGHT DT&I

PHOTO ESSAY BY J.E. LANDRUM



Above: Grand Trunk Western [illegible] has just crossed [illegible] at [illegible], Ohio, as it heads southbound on January [illegible], 1987.

Opposite page above: On October [illegible], 1986, GTW train [illegible] passes a farm at [illegible], Ohio, [illegible] north of Springfield. [illegible] the line.

Opposite page below: A northbound [illegible] the [illegible] High Bridge over the Great Miami River [illegible] on September [illegible], 1984.

At midnight February 15, 1987, the Grand Trunk Western Railroad [illegible] the [illegible] Springfield, Ohio [illegible] Cincinnati. [illegible] Detroit, Toledo & Ironton [illegible] Grand Trunk [illegible]

The GTW acquired the DT&I in [illegible] [illegible] Grand Trunk Western [illegible] Cincinnati. [illegible]

[illegible] of Springfield [illegible] the railroad [illegible]

At [illegible] p.m. on February 14, 1987, [illegible] Flat Rock, Michigan, [illegible] the last GTW [illegible] to Lima, Ohio, where at midnight [illegible] DT&I [illegible] signing off with the words, "Goodnight DT&I." ■

GT
GT

GT

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[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

COMFORT, SAFETY & CONVENIENCE

[illegible]

[illegible]

[illegible]

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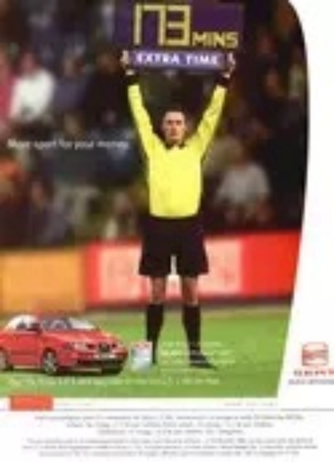
[illegible]

THE AUTOCAR VERDICT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SEAT

TRINITY 19,600-GALLON TANK CARS IN HO FROM INTERMOUNTAIN

By David Casdorph

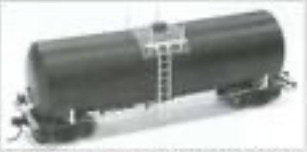
The new InterMountain models are exact scale recreations of the Trinity tanks commonly used to carry corn syrup. The models have etched-metal platforms and wire handrails. There's an index of all previous articles on modeling modern freight cars on our website at www.railmodeljournal.com

During the 1970s and 1980s, the use of corn syrup in the food industries increased dramatically. Corn syrup is a liquid nonflammable product that can be transported in large quantities in railway tank cars. Initially, 70-ton and 100-ton tank cars were used for this purpose. Tank cars assigned for the transportation of corn syrup are usually insulated, [illegible], and lined. Early design-specific 263,000-GRL class 100-ton corn syrup tank cars were built to hold about 17,600 gallons of product.

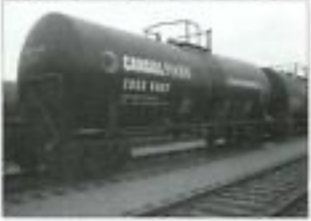
In the 1990s, the acceptable gross rail loading increased for non-hazardous freight cars to 286,000 GRL (110 tons). While most types of freight cars were readily [illegible] into the new gross rail loading specification, tank cars lagged behind. Being corn syrup is a non-hazardous food product, the corn syrup design was one of the first tank cars to be allowed into the 286,000-GRL category.

The new designs could now carry about 19,600 gallons of product. Three major builders produced the new 286,000-GRL, 19,600-gallon corn syrup tank cars: Trinity Industries, ACF, and Union Tank Car. The subject of the new HO scale model is the Trinity tank version.

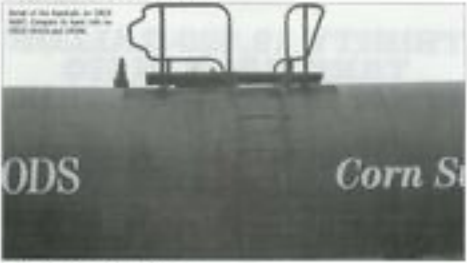
[illegible]



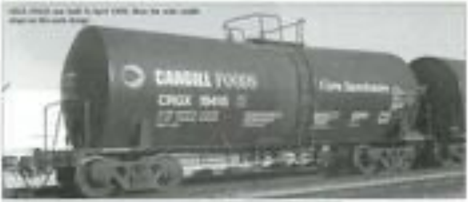
The pre-production InterMountain model displays the etched-metal platforms and wire handrails. The model will be offered fully painted and lettered to match those of the prototypes on these pages.



CRDX 8687 is a standard 263,000-GRL 17,600-gallon tank car built by Trinity Industries. This car was built in [illegible] [illegible] 286,000-GRL 19,600-gallon cars.


ODS
Corn S

[illegible]


CARGILL FOODS
CRGX

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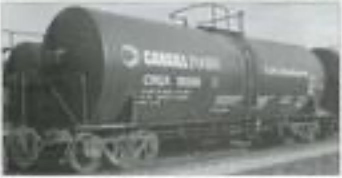
CARGILL FOODS
CRGX

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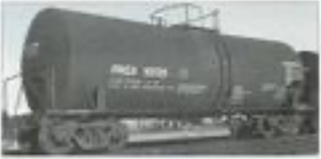

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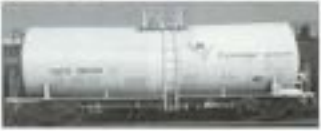

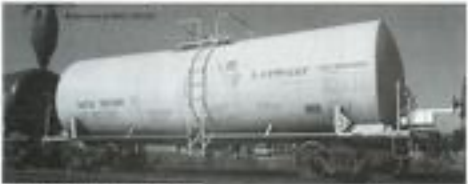

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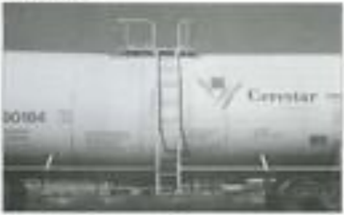
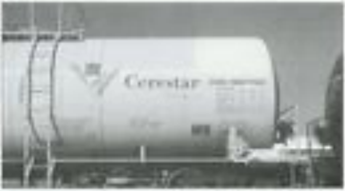


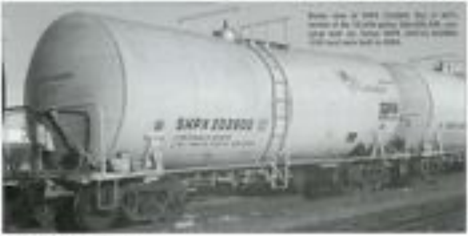
Cerestar
00104

[illegible]



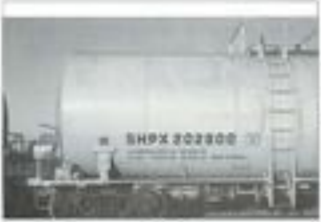
Cerestar

[illegible]

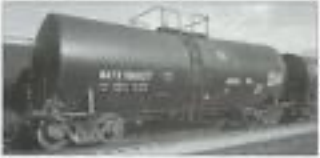


SHPX 202900

[illegible]


SHPX 202800

Left side detail view of SHPX 202800. [illegible]



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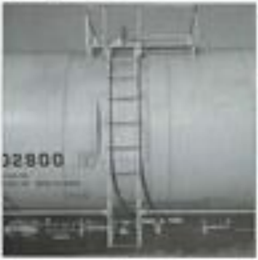
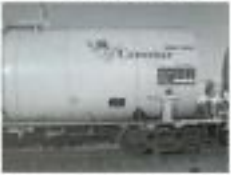


[illegible] side detail of SHPX 202800. [illegible]

Right side detail of SHPX 202800. [illegible]



portrait

by Nadine Meisner

FREDERICK ASHTON

For his centenary, Ashton's work is being revived with what may be a final flourish. He created the English style of ballet, but his grace and delicacy have caused him to be elbowed aside

F[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Ashton has lacked an energetic widow like Deborah MacMillan, or a promoting body like the George Balanchine Foundation

[illegible]

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Decoders for Athearn locomotives

Though Athearn has

Early Genesis models

Newest first

Fig. 2

Fig. 1

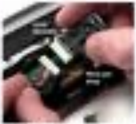

Fig. 1 Quick plug. Athearn's newest Ready-to-Roll locomotives come with the easy-to-use nine-pin plug

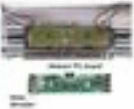

Fig. 2 Early Genesis engines. In this group of locomotives, a drop-in decoder replaces the PC board

At Vauxhall, great design is only half the story

[illegible]

[illegible]

[illegible]

VAUXHALL

[illegible]

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DCC Corner

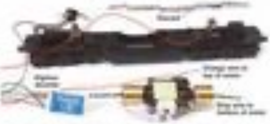
Fig. 1

Decoders for all

Standard Athearn models

Send your questions about Digital Command Control to DCC Corner, [illegible]

Fig. 3



Ground
Digitrax decoder
Orange wire to top of motor
Gray wire to bottom of motor

Fig. 3 Standard drives. For older Athearn models, Digitrax makes a decoder with a special harness that simply clips into place.

Water features

Part 4: Liners, pumps, and filters

[illegible]

[illegible]

[illegible]

This is the Pond Master 1600 system, which includes a 600 GPH pump. It is an ideal small-pond system just for fish ponds. It provides both mechanical filtration and biological filtration and needs to be cleaned every [illegible] weeks or so, depending on the season.

[illegible] tape that will give good results. It works on both EPDM and PVC liners. [illegible] backing tape will also work. It has adhesive on one side only, but is 10" wide.

Pumps

There is a variety of pump styles and capacities available for your watergarden. I use a submersible pump, which can be placed at the bottom of the pond. This eliminates complicated plumbing and the need to pierce the pond liner to make a drain hole.

The most important thing to consider is selecting the correct pump is the capacity, measured in gallons per hour (GPH). The figure is variable, depending on your waterworks' design. The GPH printed on the pump is based on what the pump puts out at the discharge. It does not take "head" into consideration.

Head is the vertical distance the water must be pumped. For example, if your waterfall is 5' higher than your pump, you have a five-foot head to overcome. Each pump will come with a chart showing its GPH at various heights. For instance, a pump rated at 300 GPH at 1' head is rated for only 25 GPH at a 5' head.

The amount of water flow coming out of your waterfall or stream is based on two factors: the size of your stream bottom (namely, the width of it) and the head. Some people want a rushing torrent of water, as would be seen during a spring thaw. Others may prefer a smaller flow, simulating what you might see later in the year. This can be controlled by selecting the right size pump. It is better to go a little bigger than smaller. You can always throttle back a larger pump, if necessary.

The pump I use most frequently is a Cal Pump [illegible]. This is a stainless-steel and bronze pump rated at 1,800 GPH for one foot of lift. I use this pump even for smaller applications, because I can throttle down the output using a butterfly valve mounted at the discharge. If the pump you select does not have a built-in valve, you can install a clamp-down restrictor on the discharge hose to control the flow or you can install a valve in the discharge line. Never restrict the intake side of the pump.

Filters and strainers

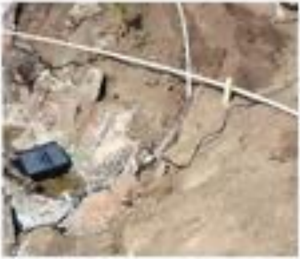
The ponds I am discussing here are not fish (or any type of Koi) ponds. If you intend to keep fish, you will have to design your pond to accommodate them. Koi ponds must be deep, and their sides should be sheer to prevent raccoons and other animals from fishing from the banks. The most important thing for a fish pond is its filtration system, which is often as large as the pond itself and is beyond the scope of this article. There are books available on fish ponds that can assist you.

For non-fish ponds, filtration is still necessary, but on a smaller scale. Its main function is to keep debris out of the pump. Minimum filtration would be a pump strainer. This type of filtration is called mechanical. Most pumps will come with a basic strainer.

Cal Pump does a heavy-duty filter strainer attachment for their pumps. In smaller ponds, a Supreme PondMaster 2000 pond filter works well. It is a simple 12" x 12" box with a polyester and activated charcoal filter. It is rated at 700 GPH, but I have successfully adapted 1,800 GPH pumps to them with good results. This is a complete filtration system, which means it is also a biological filter that uses bacteria to break down pond waste. Clean the filter by removing the polyester filter material and washing it with a high-pressure garden hose.

Hose and tubing

Plumbing a submersible pump is relatively easy. If you are using a pan-type filter, you'll need a hose to connect the pump to the filter. One is usually supplied with the filter. You'll then need a hose to feed the waterfall. I try to find a hose that will fit directly over the discharge port, which is usually a 1" pipe thread. This normally takes a hose with a ¾" ID. I connect one end of the hose, using a clamp, to the pump. If you are doing a small run, you can use hose all the way to the head of the waterfall. On longer runs I use PVC pipe, which is less expensive (about [illegible] per foot vs. about [illegible] per foot). I connect a



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Garden Railways

[illegible]

"G" scale

[illegible]

[illegible]

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Latest BR Class 50 in 00 from Hornby

[illegible]

BR Standard Class 5 with 1F tender in 00 from Bachmann

[illegible]

Three- and two-car Class 158 DMUs in 00 from Bachmann

[illegible]

Weathered powered/unpowered duos and new 58 in 00 from Hornby

[illegible]

[illegible]

Latest Class 86s in 00 from Hornby

[illegible]

Sound modules from Ramtrak

[illegible]

Caught short?

[illegible]

Latest version of Class 08 in 00 from Bachmann

[illegible]

Latest Dapol PO commissions

[illegible]

Black 5s return to Farish N fleet

[illegible]

Bogie Freightliners and oil tankers in N from Graham Farish

[illegible]

[illegible]

Another weathered 'Pug' in 00

[illegible]

[illegible]

Etched brass freelance diesel body parts from 'Worsley Works'

[illegible]

DCC decoder assortment from Train Control Systems

[illegible]

Harburn office

[illegible]

New DCC decoders from Fleischmann

[illegible]

Book Reviews

The LSWR at Nine Elms

[illegible]

[illegible]

Taunton Shed

[illegible]

Bedford to Wellingborough

[illegible]

Branches & Byways

[illegible]

The Western around London

[illegible]

Narrow Gauge & Industrial Album

[illegible]

[illegible]

Cambrian Lines

[illegible]

Gloucester to Bristol

[illegible]

Hampshire Narrow Gauge

[illegible]

Midland Record No.28

[illegible]

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Model Railroader MAGAZINE

Atmosphere

Tony Koester

When a layout

Atmosphere

Dave Frary once put it

Imagine how hard

The illusion of distance between scene and viewer is aided by using lighter colors while avoiding pure blacks and whites, as is apparent in this HOn3 scene built by Tom Knapp. Tom Knapp photo

Things can go very

Atmosphere grows over the stack of a Western Maryland diesel on a [illegible]

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Cuban steam at sunset

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GALLERY

Taking a rest on the T&P

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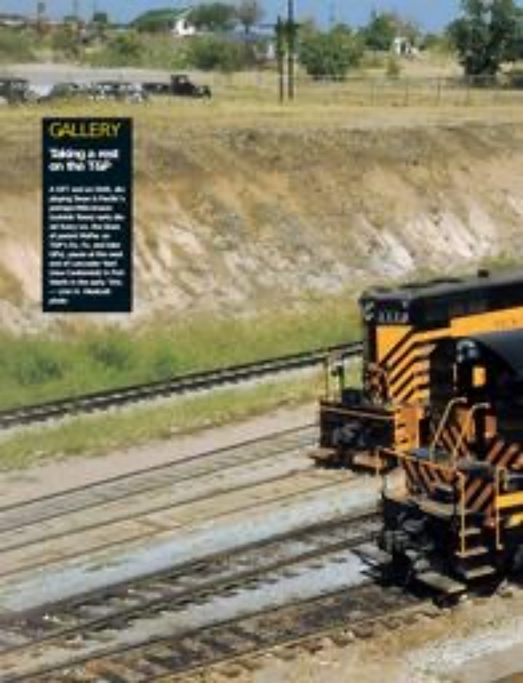


TEXAS & PACIFIC

NEWS

INFORMATION FROM THE RAILWAY MODELLER

Heljan Class 52 progress, and more

[illegible]

DCC workshops in Nottingham

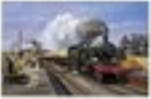
[illegible]

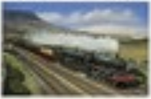
New prints by Barry Freeman

[illegible]

Hornby changes loco release dates

[illegible]





SHOP NEWS

Newport Model Centre, Gwent

[illegible]

Mac's Models, Ilkeston

[illegible]

Hobby Shop, Chingford

[illegible]

Wilmington show

[illegible]

Gwent Models GWR Super Saloon

[illegible]

Gremlins in the sound circuits

[illegible]

Hurry for Manchester advance tickets

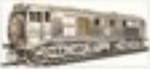
[illegible]

Mascot B kit in 4 from Connoisseur

[illegible]

News from DJH Engineering

[illegible]



[illegible]

DCC-fitted locos available

[illegible]

Jack Ray's visit

[illegible]

[illegible]

New for the 'Rally'

[illegible]

New Townstreet loco sheds

Model Town in full

[illegible]

Ron Curling

[illegible]

Pauline Boyle

[illegible]

Coming next month

Out Thursday 21 October

[illegible]

YOUR TREK PLAN FOR THE WEEKEND...

ALABAMA

[illegible]

CALIFORNIA

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

CONNECTICUT

[illegible]

DELAWARE

[illegible]

FLORIDA

[illegible]

[illegible]

GEORGIA

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

ILLINOIS

[illegible]

INDIANA

[illegible]

[illegible]

KENTUCKY

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[illegible]

MICHIGAN

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NEW YORK

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NORTH CAROLINA

[illegible]

OHIO

[illegible]

[illegible] ◆ [illegible]

[illegible] ◆ [illegible]

WASHINGTON ◆ [illegible]

OREGON

[illegible] ◆ [illegible]

[illegible] ◆ [illegible]

PENNSYLVANIA

[illegible] ◆ [illegible]

[illegible] ◆ [illegible]

[illegible] ◆ [illegible]

FT. WASHINGTON ◆ [illegible]

[illegible] ◆ [illegible]

[illegible] ◆ [illegible]

[illegible] ◆ [illegible]

[illegible] ◆ [illegible]

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Meetings

[illegible]

New Members

[illegible]

New Associates

[illegible]

Classes

[illegible]

Exhibition Cancelled

[illegible]

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OPPORTUNITY YOURS

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Classified Advertisements

Trade

Retailers' Announcements

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Trade Sales Products

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Trade Sales Books

[illegible]

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Insurance

[illegible]

Trade Services

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Women Trade

[illegible]

[illegible]

Holiday Accommodation

[illegible]

Auctions

[illegible]

Private

Private Sales Products

[illegible]

Private Sales (Boats)

[illegible]

Wanted Private

[illegible]

[illegible]

Clubs and Societies

[illegible]

Swapmeets · Sales · Fairs

[illegible]

September

[illegible]

October

[illegible]

[illegible]

November

[illegible]

January 2000

[illegible]

OPPORTUNITY KNOCKS

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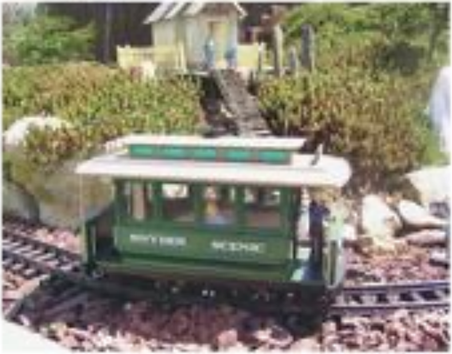

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Traction on the Snyder Scenic Railroad

[illegible]

[illegible]

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HO Budd Corrugated Business Car

Arriving This Month

Item #	Description	MSRP
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

- ✓ Removable Truck Top Frame for operation on tighter curves

HO EMD SD38-2

Expected in January

[illegible]

N California Zephyr 11-Car Set

Expected in October

[illegible]

- ✓ [illegible]
- ✓ [illegible] CALIFORNIA ZEPHYR [illegible]
- ✓ [illegible]
- ✓ Display UNITRACK included

N EMD F3 with Passenger Pilot Chicago, Burlington & Quincy

Expected in October

Item #	Description	MSRP
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

- ✓ KATO Magnetic Knuckle Couplers
- ✓ DCC-Friendly Mechanism

N ALCO PA-1/PB-1

Expected in November

Item #	Description	MSRP
[illegible]	**Denver & Rio Grande Western** [illegible]	[illegible]
[illegible]	**Atchison, Topeka & Santa Fe** [illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	**Denver & Rio Grande Western** [illegible]	[illegible]
[illegible]	**Atchison, Topeka & Santa Fe** [illegible]	[illegible]

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